

**Public Technology, Inc.
and the
Urban Consortium Energy
Task Force**

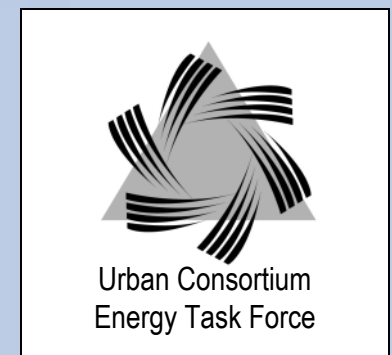
E-VISION CONFERENCE
MAY 15, 2002

SHARRON BROWN
DIRECTOR OF ENERGY
PROGRAMS

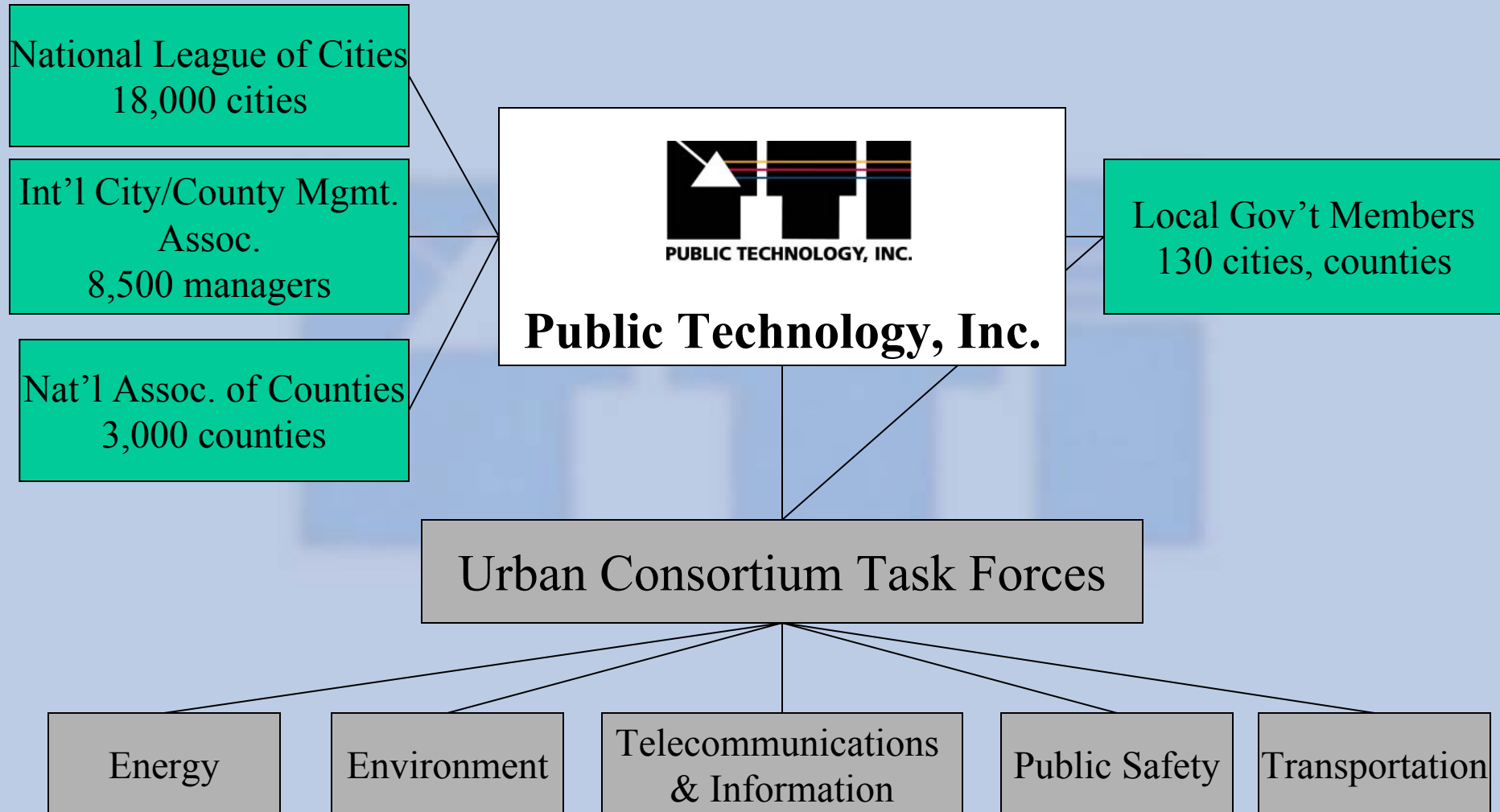


Introducing PTI and UCETF

- **PTI:** A nonprofit organization that advances the development and use of technology by local governments. Rebuild America Strategic Partner.
- **Urban Consortium:** A network largely of America's largest cities and counties, working together to research and solve problems facing all local governments. The only such permanent network totally focused on technology.
- **Urban Consortium Energy Task Force:** Addressing the critical energy management and efficiency needs of local governments.



How We Work



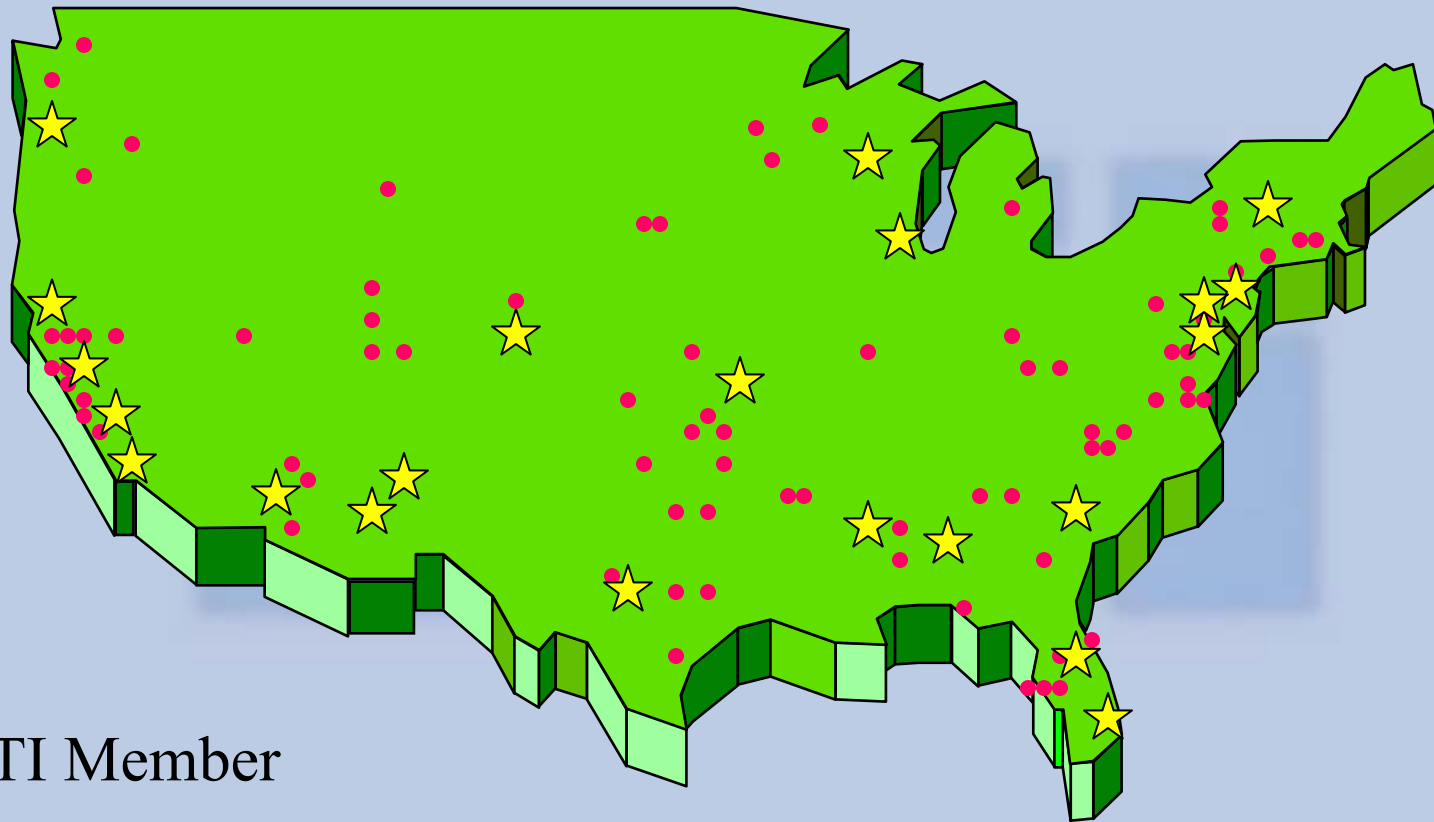
What We Do

UCETF seeks to identify and develop innovative ways to:

- improve energy efficiency,
- reduce local government expenditures, and
- maximize opportunities for local economic growth through energy management programs, projects and policy tools.



UCETF Members



● PTI Member

★ UCETF Member

Local Projects, National Results

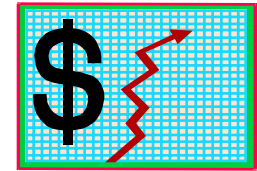
*We look at the big picture – How can you cut your energy bill?
Can alternative fuels reduce air pollution? What can cure
“sick” buildings? Some examples:*

- **The Rhode Island League of Towns** established an electricity aggregation program for its members
- **Phoenix, AZ**, studied alternative methods of handling sludge and gas in wastewater treatment plants
- **Honolulu, HI**, gathered 12 months of operational data on advanced electric vehicles in its municipal fleet
- **Hennepin County, MN**, developed criteria for establishing telework centers

BACKGROUND & SUCCESS FACTORS

- **Implemented in 1977; operated by municipal electric utility**
- **Energy savings are part of the City's energy resource portfolio**
- **Supportive elected officials; supportive community**
- **Service delivery w/ field staff & trade allies**
- **All sectors served: Residential, Commercial, Industrial Institutional, & Governmental**
- **Target market segments: Low Income, Single & Multifamily, Small Businesses, Commercial & Industrial retrofit, & new Construction**
- **Variety of services & programs**
- **Utilization of incentives**
- **Extensive collaboration & leveraging of resources**



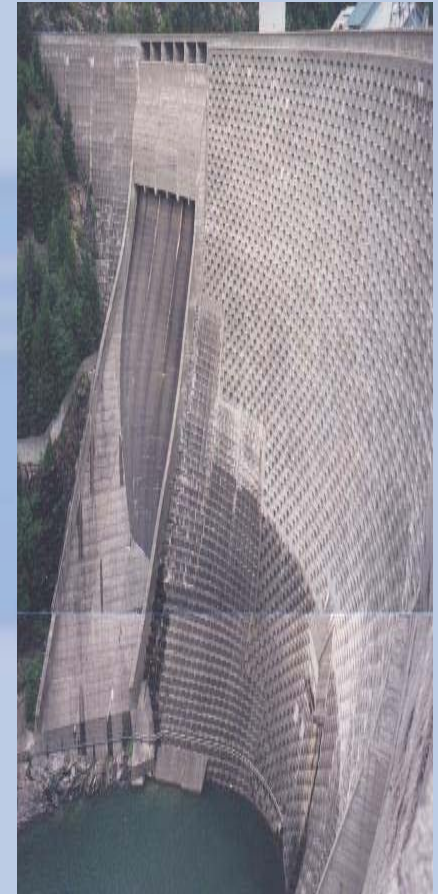


STRATEGY GUIDELINES

IMMEDIATE:

↑ ENERGY PRICES & ↓ WATER SUPPLY

- Reduce utility's electric load this year
- Offset impact of higher electricity rates
- Implement simple programs & services
- Conduct community workshops & outreach
- Broaden focus on low-income
- Provide support to small businesses
- Intensify focus on city's largest consumers



STRATEGY GUIDELINES

LONG TERM

- **Install permanent conservation measures**
- **Ensure long-term savings**
- **Target medium & large Commercial & Industrial users**
- **Capture lost opportunities**
- **Provide incentives**
- **Enhance current program & service offerings; fill in service gaps**
- **Increase commitment to low income**
- **Double savings acquisition (6 aMW to 12 aMW)**
- **Increase budget by 1/3 (\$18m - \$25m)**
- **Increase stringency of local energy codes & connection standards**
- **Reduce greenhouse gas emissions**



RESULTS

For 2002

- **Energy Savings - approx. 6.5 aMW**
 - Enough energy to power about 5,300 Seattle homes for one year.
 - Energy Savings in 2000 are worth approx. \$11 million in avoided power purchases
- **CO₂ Reductions**
 - Reduced greenhouse gas emissions by 23,500 short tons equal to more than 4,700 vehicles off the road for one year.



YTD 2001

- **Energy Savings**
 - Reduced system load by approx. 18 MWs w/ voluntary curtailment
- **CO₂ Reductions**
 - 68K short tons = approx. 25K autos off road/yr



CAPE LIGHT COMPACT

Energy Efficiency Saves \$\$

- Plan Ensures Revenues Generated from Local Ratepayers are Spent Locally.
- \$4.7 Million in Energy Services Over the Next 18 Months.
- Four Main Programs for Energy Services.
- Pilot Peak Shaving Program for Small Consumers.

CAPE LIGHT COMPACT

Consumer Protection Saves \$\$

- Improvement of Reliability of Power.
- Asset Divestiture Intervention Saved \$25 Million in Stranded Costs.
- Streetlight Purchase Program, \$400,000 in Annual Savings for Towns.

CAPE LIGHT COMPACT

Power Supply Saves \$\$

- Regional Procurement of Natural Gas and Fuel Oil, \$165,000 and \$500,000 in Annual Savings.
- Two-Year Municipal Power Supply Contract, \$750,000 in Savings.

CAPE LIGHT COMPACT

Power Supply Saves \$\$

- *Community Choice* Power Supply Program on Target to Deliver Savings to all Consumers.
- Developed a Distributed Generation and Renewable Energy Program.

BEST Services (cont.)

TRANSPORTATION ALTERNATIVES

- Efficient transportation alternatives

AWARDS/CASE STUDIES

- Recognition for “BEST Businesses”
- Case studies on BEST award winners

Portland, OR



BEST Services

ENERGY EFFICIENCY

- Obtain free energy design assistance
- Apply for tax credits from the state
- Receive rebates from local utilities
- Select energy-efficient technologies
- Get long-term, fixed-rate financing

BEST Services (cont.)

WASTE REDUCTION

- Recycle construction waste
- Include recycled content building materials

WATER CONSERVATION

- Efficient water technologies

BEST Services (cont.)

TRANSPORTATION ALTERNATIVES

- Efficient transportation alternatives

AWARDS/CASE STUDIES

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BEST Annual Results

BEST Award Winners are Saving...

- \$10.3 Million total cost avoidance
- 37.2 million kWh of electricity
- 6.6 million therms of natural gas
- 687,000 gallons of gasoline

BEST Annual Results

BEST Award Winners Savings (Cont.)

- 379 million gallons of water
- 60,900 tons of solid waste
- 9.4 million miles (VMT)
- 93,700 tons CO₂ emissions

Knowledge and Technology Transfer

We share what we learn from our projects:

- Project results and lessons learned are captured and distributed as reports, guidebooks, videos or workshop presentations – directly and through NLC, ICMA and NACo
- Online resources like Access Local Government and PTI's "Tell Me More" news service
- Peer-to-peer exchanges at events year-round and around the country

Get Involved With PTI

- **Contact Public Technology, Inc.**
 - **(800) 852-4934**
 - **www.pti.nw.dc.us**
 - **Contact: Sharron Brown, Director**
 - **(202) 626-2428**
 - **sbrown@pti.org**

